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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/575,275	04/11/2006	Hasse Sinivaara	60091.00457	7231
11051 7590 07/14/2011 Squire, Sanders & Dempsey (US) LLP Nokia Corporation 8000 Towers Crescent Drive, 14th Floor Vienna, VA 22182				
EXAMINER				
JAIN, ANKUR				
ART UNIT		PAPER NUMBER		
2618				
NOTIFICATION DATE		DELIVERY MODE		
07/14/2011		ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary

Application No.

10/575,275

Applicant(s)

SINIVAARA, HASSE

Examiner

ANKUR JAIN

Art Unit

2618

Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 May 2011.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20, 23-25 and 27-32 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20, 23-25, and 27-32 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-945)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on May 4th, 2011 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. **Claims 1-20, 23-25, and 27-32** are rejected under 35 U.S.C. 103(a) as being unpatentable over Ahmavaara, US Patent 7,058,423 (hereafter referenced as Ahma), in view of Karaoguz et al, US 2002/0059434 A1 (hereafter referenced as Kara).

Regarding **Claim 1, 27, and 32**, Ahma teaches an apparatus comprising: "a first radio interface operably connectable to a mobile network" (see Column 1 lines 5-25 and Figure 1). Ahma also teaches "a receiver configured to receive an indication from the mobile network, through the first radio interface, the indication indicating that services

may be locally available" (see Column 3 lines 20-40 and Figure 3). Ahma also teaches "a controller configured to collect service information about services available; and compile a service list based on the service information collected, the service list describing at least one service available" (see Column 3 lines 30-40 and Column 5 lines 15-30). Before the MS selects certain domains which offer a particular service, it is necessary that the MS must "collect service information about services available; and compile a service list based on the service information collected." Ahma does not teach "at least one short-range radio interface; multimode terminal via at least one short-range wireless network; the multimode terminal activating the at least one short-range radio interface, searching for one or more compliant networks, and receiving and storing network-specific information when a compliant network is found." However, Kara generally teaches "at least one short-range radio interface; multimode terminal via at least one short-range wireless network; the multimode terminal activating the at least one short-range radio interface, searching for one or more compliant networks, and receiving and storing network-specific information when a compliant network is found" (see Paragraph 0017, Paragraph 0044-0046, 0048, and 0050). "Activating the at least one short-range radio interface and searching for one or more compliant networks" clearly reads on activating the PAN or LAN functionality, for example, according to a variety of factors such as quality of service, data rate, etc. The Examiner firmly and strongly submits that it is necessary and one of ordinary skill in the art will understand that once a particular network is selected after polling (i.e. PAN or LAN), there must be "receiving and storing of network-specific information" during the ongoing established

PAN or LAN communications, for example. It would have been obvious for one of ordinary skill in the art at the time the invention was made to modify Ahma to incorporate at least one short-range radio interface; multimode terminal via at least one short-range wireless network; the multimode terminal activating the at least one short-range radio interface, searching for one or more compliant networks, and receiving and storing network-specific information when a compliant network is found as taught by Kara, for the purpose of the mobile station of Ahma being notified by the mobile network of Ahma of a short-range wireless network option/service in addition to the existing core network domain services, which not only conserves system power of the service management system of Ahma as a result of utilizing a short-range wireless network (since this is a quality of a short-range wireless network), but also for the purpose of increasing system versatility and functionality of the service management system of Ahma. In addition, it would have been obvious for one of ordinary skill in the art at the time the invention was made to make this combination, since Paragraph 0086 of Kara clearly discloses a user being informed of an 802.11b network and types of services available within this network, which is identical to Figure 3 of Ahma with respect to how the network provides the MS with a list of available networks and services provided.

Regarding **Claim 2**, Kara teaches "attempting to detect at least one of the at least one short-range wireless network through at least one short-range radio interface of the multimode terminal" (see Paragraph 0017).

Regarding **Claim 28**, Kara teaches "wherein apparatus is configured to attempt to detect the at least one of the at least one short-range wireless network" (see Paragraph 0017).

Regarding **Claim 3 and 29**, Kara teaches "wherein the apparatus is configured to activate one short-range radio interface at a time" (see Paragraphs 0044-0055).

Regarding **Claim 4 and 30**, Kara teaches "wherein the apparatus is further configured to control an activated short-range radio interface to a power save state; activated short-range radio interface" (see Paragraphs 0044-0055).

Regarding **Claim 5**, Kara teaches "attempting to detect short-range wireless networks corresponding to all short-range radio interfaces of the multimode terminal" (see Paragraph 0017 and 0044-0055).

Regarding **Claim 6**, Kara teaches "storing user preference data in the multimode terminal; based on the preference data, selecting one short-range wireless network; and establishing communications with the short-range wireless network selected" (see Paragraph 0017 and 0048).

Regarding **Claim 7 and 24**, Kara teaches "wherein the indication received from the mobile network includes instructive information for the collecting of said service information" (see Figures 3-4 and 6, and paragraphs 0044-0050).

Regarding **Claim 8**, Kara teaches "the instructive information comprises at least one network address" (see Fig.14).

Regarding **Claim 9**, Kara teaches "wherein the service information is collected through a radio interface by which the multimode terminal is operably connected to the mobile network" (see Fig.14).

Regarding **Claim 10**, Kara teaches "extracting the at least one network address from the indication; and gathering the service information based on the at least one network address" (see Paragraphs 0044-0050).

Regarding **Claim 11**, Kara teaches "wherein the network address is an internet protocol address" (see Paragraph 0048). A given network may provide better quality of service than another network. A network may provide content such as Internet Access that another network does not provide. One network may provide information services (voice, data, multi-media) and a comparison of a service (available bandwidth, quality of service, network costs) available from each network. Extracting a network address is inherently taught since providing internet access inherently means an IP address is being extracted.

Regarding **Claim 12**, Kara teaches "the instructive information indicates at least one short range radio interface for each service available locally" (see Figure 14).

Regarding **Claim 13**, Kara teaches "attempting to detect at least one of the at least one short-range wireless network through at least one of the at least one short-range radio interface indicated by the instructive information; and gathering the service information through the at least one of the at least one short-range-radio interface" (see Figures 3-4, 6, and Paragraphs 0044-0050).

Regarding **Claim 14**, Kara teaches “presenting the service list to a user of the multimode terminal” (see Figures 3-4, 6, and paragraphs 0044-0050).

Regarding **Claim 15**, Kara teaches “compiling the service list according to a user preference” (see Figures 3-4, 6, and paragraphs 0044-0050).

Regarding **Claim 16 and 25**, Kara teaches “a required connectivity standard” (see Paragraphs 0044-0055). Ahma teaches “presenting for each of the at least one service” (see Column 3 lines 20-40 and Column 5 lines 15-30).

Regarding **Claim 17**, Ahma teaches “wherein the service list comprises service providers corresponding to at least one service” (see Column 3 lines 20-40 and Column 5 lines 15-30).

Regarding **Claim 18**, Kara teaches “querying the user of the multimode terminal when any of the at least one service is to be accessed” (see Fig.14).

Regarding **Claim 19**, Ahma teaches “receiving the indication as part of system information sent from the mobile network” (see Column 3 lines 20-40 and Column 5 lines 15-30).

Regarding **Claim 20**, Ahma teaches “maintaining a service database in the mobile network, the service database comprising service-related data for the indication (see Column 3 lines 20-40 and Column 5 lines 15-30).

Regarding **Claim 19 and 23**, Ahma teaches “receiving the indication as part of system information sent to terminals in the mobile network (see Column 3 lines 20-40 and Column 5 lines 15-30).

Regarding **Claim 31**, Ahma teaches "wherein the apparatus is configured to retrieve the service information from a network address included in the indication" (see Column 2 lines 43-60).

Response to Arguments

3. Applicant's arguments filed on May 4th, 2011 have been considered but they are NOT persuasive. The Examiner still firmly submits Ahma teaches an apparatus comprising: "a first radio interface operably connectable to a mobile network" (see Column 1 lines 5-25 and Figure 1). Ahma also teaches "a receiver configured to receive an indication from the mobile network, through the first radio interface, the indication indicating that services may be locally available" (see Column 3 lines 20-40 and Figure 3). Ahma also teaches "a controller configured to collect service information about services available; and compile a service list based on the service information collected, the service list describing at least one service available" (see Column 3 lines 30-40 and Column 5 lines 15-30). Before the MS selects certain domains which offer a particular service, it is necessary that the MS must "collect service information about services available; and compile a service list based on the service information collected." Ahma does not teach "at least one short-range radio interface; multimode terminal via at least one short-range wireless network; the multimode terminal activating the at least one short-range radio interface, searching for one or more compliant networks, and receiving and storing network-specific information when a compliant network is found." However, Kara generally teaches "at least one short-range radio interface; multimode terminal via at least

one short-range wireless network; the multimode terminal activating the at least one short-range radio interface, searching for one or more compliant networks, and receiving and storing network-specific information when a compliant network is found" (see Paragraph 0017, Paragraph 0044-0046, 0048, and 0050). "Activating the at least one short-range radio interface and searching for one or more compliant networks" clearly reads on activating the PAN or LAN functionality, for example, according to a variety of factors such as quality of service, data rate, etc. The Examiner firmly and strongly submits that it is necessary and one of ordinary skill in the art will understand that once a particular network is selected after polling (i.e. PAN or LAN), there must be "receiving and storing of network-specific information" during the ongoing established PAN or LAN communications, for example. It would have been obvious for one of ordinary skill in the art at the time the invention was made to modify Ahma to incorporate at least one short-range radio interface; multimode terminal via at least one short-range wireless network; the multimode terminal activating the at least one short-range radio interface, searching for one or more compliant networks, and receiving and storing network-specific information when a compliant network is found as taught by Kara, for the purpose of the mobile station of Ahma being notified by the mobile network of Ahma of a short-range wireless network option/service in addition to the existing core network domain services, which not only conserves system power of the service management system of Ahma as a result of utilizing a short-range wireless network (since this is a quality of a short-range wireless network), but also for the purpose of increasing system versatility and functionality of the service management system of Ahma. In addition, it would have been obvious for one of

ordinary skill in the art at the time the invention was made to make this combination, since Paragraph 0086 of Kara clearly discloses a user being informed of an 802.11b network and types of services available within this network, which is identical to Figure 3 of Ahma with respect to how the network provides the MS with a list of available networks and services provided.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANKUR JAIN whose telephone number is (571)272-9747. The examiner can normally be reached on M-F, 9:00 am to 4:00 pm, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yuwen Pan, can be reached on 571-272-7855. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Ankur Jain/

Examiner, Art Unit 2618

07/06/2011

/DUC NGUYEN/

Supervisory Patent Examiner, Art Unit 2618